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each integer  $n > 1$ , let  $p(n)$  denote the largest prime factor of  $n$ . Determine all triples  $(x; y; z)$  of distinct positive integers satisfying  $x; y; z$  are in arithmetic progression,  $p(xyz) \geq 3$ .

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Let  $e = (p-1)d$ . We have  $x^{pe} - 1 = (x^d)^e - 1 = (x^d - 1)((x^d)^{e-1} + (x^d)^{e-2} + \dots + 1) = (x^d - 1)g(x)$ ; where  $g \in (\mathbb{Z}/p\mathbb{Z})[x]$  and  $\deg(g) = e - d = p - 1 - d$ . Theorem 2.1.20 implies that  $x^{pe} - 1$  has exactly  $p - 1$  roots in  $\mathbb{Z}/p\mathbb{Z}$ , since every nonzero


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element of  $Z/pZ$  is a root!  
By Proposition 2.5.3,  $g$  has  
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then  $\text{lcm}(ka; kb) = k \text{lcm}(a; b)$

(c) If  $m$  is

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Since  $[-1/3] = -1$ , we have

$\{-1/3\} = -1/3 - [-1/3] =$

$-1/3 - (-1) = 2/3. \quad 1.1.11.$

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If  $x$  is an integer, then  $[x] + [-x] = x - x = 0$ .

Otherwise,  $x = z + r$ , where  $z$  is an integer and  $r$  is a real number with  $0 < r < 1$ .

In this case,  $[x] + [-x] = [z + r] + [-z - r] = z + (-z - 1) = -1$ . 1.1.12. Let  $x =$

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$[x] + r$  where  $0 \leq r < 1$ .

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